

CLAIMS

What is claimed is:

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1. A hose assembly comprising:

a tubular first layer, comprising a polymeric material resistant to chemical and heat degradation;

a jacket disposed about said inner layer;

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at least one Aramid-like braided layer disposed between said inner and outer layers.

2. The hose assembly according to claim 1, further characterized by said braided layer comprising Aramid fibers.

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3. The hose assembly according to claim 2, wherein said braided layer further includes glass fibers commingled with said Aramid fibers.

4. The hose assembly according to claim 2, wherein said polymeric
20 material of said tubular first layer is a polyketone.

5. The hose assembly according to claim 2, wherein said polymeric material of said first layer is a polymeric fluorocarbon.

6. The hose assembly according to claim 2, wherein said polymeric material of said jacket is a polymeric material.

7. The hose assembly according to claim 6, wherein said polymeric material of said jacket is a polymeric fluorocarbon or a polyamide.

8. The hose assembly according to claim 6, wherein said polyamide material of said jacket is unexpanded.

9. The hose assembly according to claim 8, wherein said polyamide material of said jacket is selected from the group consisting essentially of: nylon 6; nylon 6,6; nylon 11; and nylon 12.

10. The hose assembly according to claim 5, wherein said polymeric fluorocarbon material of said first layer is expanded.

11. The hose assembly according to claim 10, wherein said polymeric fluorocarbon material of said first layer is selected from the group consisting

essentially of: polytetrafluoroethylene; perfluorinated ethylene-propylene; perfluoralkoxy fluorocarbon resin; and polyfluoroethylene.

12. The hose assembly according to claim 1, wherein said first layer
5 further includes a conductive means in said first layer for conducting electrical charges along the length of the first layer.

13. The hose assembly according to claim 1, wherein said hose
assembly further includes a conductive layer containing therein conductive
10 means for conducting electrical charges along the length of said hose assembly.

14. The hose assembly according to claim 12 or 13, wherein said
conductive means is carbon black.

15. The hose assembly according to claim 1, wherein said hose
assembly further includes a coupling means adapted to engage the ends of said
15 hose assembly for interconnecting said hose assembly to a flow of fluid.

16. A method of making a hose assembly by:
20 forming a tubular first layer;
disposing an Aramid-like braid about the first layer; and
extruding a jacket over the braid.

17. The method according to claim 12, wherein said forming step further includes extruding the tubular first layer.

- 5 18. A method of making a hose assembly by:
- forming a tubular first layer;
- dipping the tubular first layer in an adhesive emulsion; and
- disposing an Aramid-like braid about the adhesive coated first
- layer.

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